

## INTERNATIONAL SEARCH REPORT

10/539252

REC'D CT/PIO 15 JUN 2005  
PCT/IB 03/05672

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC: 7 G02F1/1333 G02F1/1335		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) IPC 7 G02F		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) PAJ, EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 06, 28 June 1996 (1996-06-28) -& JP 08 050283 A (SANYO ELECTRIC CO LTD), 20 February 1996 (1996-02-20) abstract figures 8,13-16 paragraph '0031! - paragraph '0039!	1-3,5,7, 8,11-13
Y		4,6,9, 10,14
Y	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 11, 3 January 2001 (2001-01-03) & JP 2000 235178 A (SEIKO EPSON CORP), 29 August 2000 (2000-08-29) abstract ---	4,6,9, 10,14
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
<b>* Special categories of cited documents:</b>		
<b>*A*</b> document defining the general state of the art which is not considered to be of particular relevance		
<b>*E*</b> earlier document but published on or after the international filing date		
<b>*L*</b> document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		
<b>*O*</b> document referring to an oral disclosure, use, exhibition or other means		
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<b>*T*</b> later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
<b>*X*</b> document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
<b>*Y*</b> document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
<b>*&amp;*</b> document member of the same patent family		
Date of the actual completion of the international search  16 March 2004	Date of mailing of the international search report  25/03/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Cossu, A	

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 013, no. 438 (P-939), 3 October 1989 (1989-10-03) & JP 01 167729 A (HITACHI LTD), 3 July 1989 (1989-07-03) abstract	1-14
A	--- PATENT ABSTRACTS OF JAPAN vol. 017, no. 448 (P-1594), 17 August 1993 (1993-08-17) -& JP 05 100222 A (SHARP CORP), 23 April 1993 (1993-04-23) abstract figure 2	1-14
A	--- PATENT ABSTRACTS OF JAPAN vol. 018, no. 007 (P-1670), 7 January 1994 (1994-01-07) & JP 05 249450 A (NEC CORP), 28 September 1993 (1993-09-28) abstract	1-7
A	--- US 6 147 737 A (YACHI SHIGERU) 14 November 2000 (2000-11-14) column 6, line 12 - line 57 column 8, line 16 - line 66 figures 5,6	1-14

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JP 2000235178 A	29-08-2000	NONE	
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US 6147737 A	14-11-2000	JP 3397287 B2 JP 10268305 A CN 1201160 A ,B TW 438993 B	14-04-2003 09-10-1998 09-12-1998 07-06-2001